

# Polyethylene Film

## BPE.CONVENTIONAL TRANSPARENT BIODEGRADABLE LAMINATION

### Description:

The BPE.Conventional Transparent Biodegradable Lamination is a co-extruded film in blown equipment, formed by excellent quality polyethylene blends that ensure high sealability at low temperatures on the untreated face. Can be produced with treatment on both sides. It presents excellent optical characteristics (brightness and transparency), high sliding, high resistance to tearing, besides high dimensional stability. Because it is easy to cut by machine, it is ideal for sachet and tube-type packaging.

### Main Characteristics:

- Biodegradable film, with compound in its formulation that meets the standard ASTM D6954-4 in all phases, obtaining international certifications such as SP, FDA, INTERTEC AND ROHS;
- 2 year Shelf Life;
- Absence of toxic waste in its decomposition;
- Possibility of control over the useful life of the material because the degradation by oxidation will only be activated when the material is discarded in the environment and suffers weathering;
- Biodegradable film without changing its final characteristics.
- Features "Easy Cut" on machine, ideal for packaging of sachets and tubes;
- Good sealability;
- High tear resistance;
- High slip;
- Excellent flatness and dimensional stability;
- Treatment on one side or both sides for paint and/or adhesive applications or without treatment.

### Applications:

Intended for the manufacture of laminated packaging with other substrates. It can be supplied in thicknesses between 0.020 and 0.2500 mm. Meets ANVISA's ordinances to get in direct contact with food.

### Important considerations:

Intended for the manufacture of laminated packaging with other substrates. It can be supplied in thicknesses between 0.020 and 0.2500 mm. Meets ANVISA's ordinances to get in direct contact with food. It is recommended to store this product at temperatures not exceeding 30°C, in the shade, with relative humidity up to 60%, as it may present decay of physical properties in uncontrolled storage conditions. In addition, it must be used within the validity period described on the identification labels. Maintain proper turnover of expiration dates (FIFO). The information given in the datasheets should be considered as comparative parameters and should not be taken as a guarantee. Other specifications can be answered upon consultation and approval by our technical department.

#### Dimensional Properties

Dimensions	Unit	Tolerances
Width	mm	+ 5
Thickness	mm	+ or - 5
Weight	g/m <sup>2</sup>	+ or - 5
Internal Diameter	inch	6
Treatment side		external/internal or bitrated
External Diameter	mm	500-800

#### Main properties

Properties	Method	Unit	Thickness in mm				
			0,030	0,040	0,050	0,060	0,070
Drying Module 1% *MS	ASTM D882	MPA	210	220	230	240	250
Tensile strength *MS	ASTM D882	GF	3000	3400	4000	4600	5500
Tensile strength *CD	ASTM D882	GF	2000	2800	3600	4500	5000
Stretching at Break *MS	ASTM D882	%	550	640	680	710	750
Stretching at break *CD	ASTM D882	%	730	750	780	800	810
Tear Resistance *MS	ASTM D1938	GF	130	220	330	440	530
Tear Resistance *CD	ASTM D1938	GF	250	400	490	550	690
TPVA at 38°C, 100% H.R.	ASTM F1249	g/(m <sup>2</sup> /day)	13,0	9,0	8,0	6,5	6,0
Surface Tension	ASTM 2578	dynes/cm	38				
Dynamic COF (film/ film- *UF / *UF)	ASTM D1894		0,10-0,25				
Initial hot sealing temperature (Hot Tack)	ASTM 1921	°C	105	105	105	105	110
Initial cold sealing temperature *UF/*UF	ASTM F88	°C	140	160	160	160	165

\*MS -- Machine Steering | \*CD - Cross Direction | \*UF - Untreated face

The typical values mentioned are average data and should be considered as a reference and cannot be taken as a warranty specification. Other specifications can be met upon consultation and approval.

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